IN THE ABSTRACT

Please replace the originally file Abstract with the new Abstract on the attached sheet.

~~Web application development typically requires a set of skills not normally possessed by typical application developers. Web application development typically employs specialized toolkits, applications, and languages.~~ Efficient development of conventional web applications suggests extensive and thorough knowledge of web page delivery technologies such as HTML, ~~Javascript,~~ Java, ~~Servlets,~~ and JSPs, ~~and others~~. A rendering framework to define the static, cosmetic, "window dressing" type of content, replicated across multiple pages, in a single JSP template file which can then incorporate or include the dynamic, active content from other files, mitigates development inefficiencies. Such a rendering framework represents each screen output page by a file including the active content, while avoiding replication of the static content. Such inclusions may be nested in a hierarchical manner to enumerate the static content in one file and allow a web application to include active content according to a hierarchical inheritance. Metadata components, such as XML files, include the active content according to a predetermined declarative syntax, thereby facilitating implementation, which the framework then interprets into a resulting output page such as a JSP page.